OIPE JC112
JUL 16 2004
PATENT & TRADEMARK OFFICE

FIG. 1

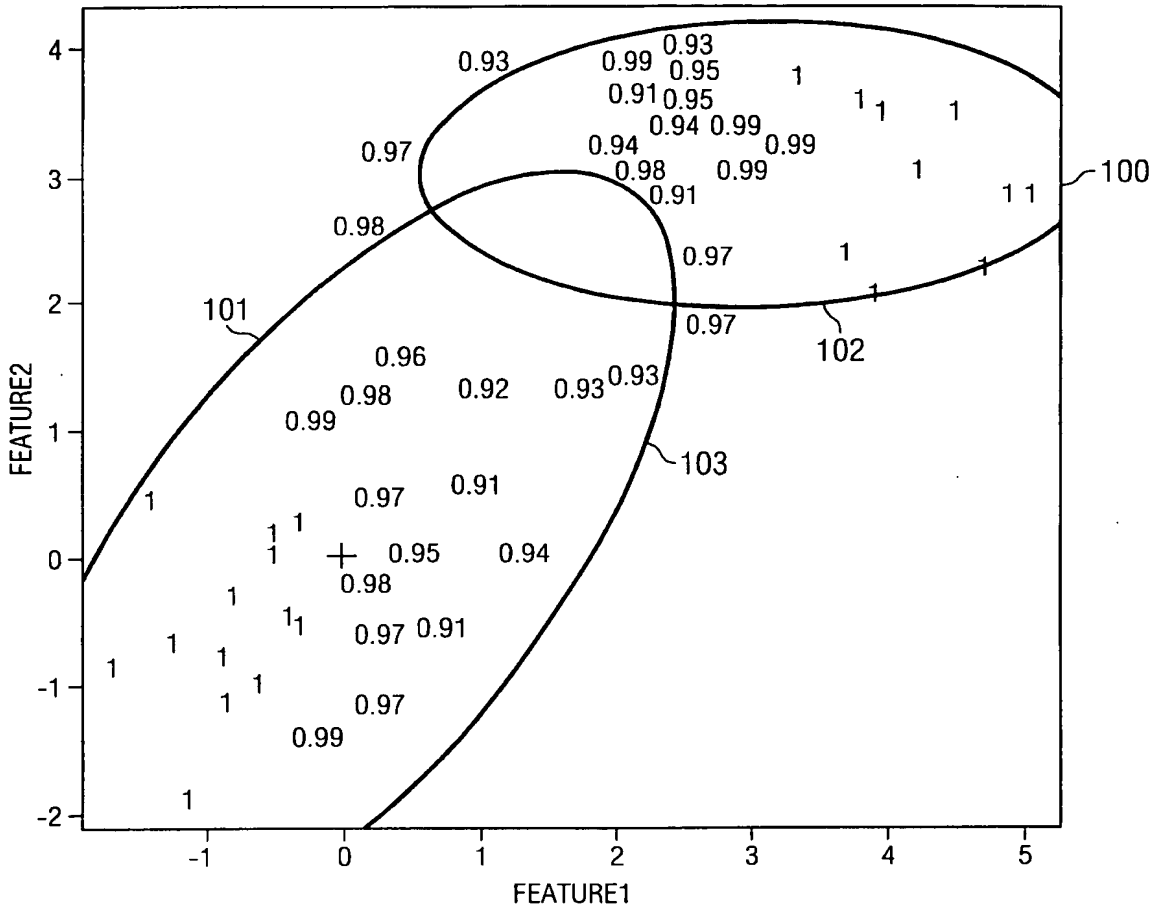


FIG. 2

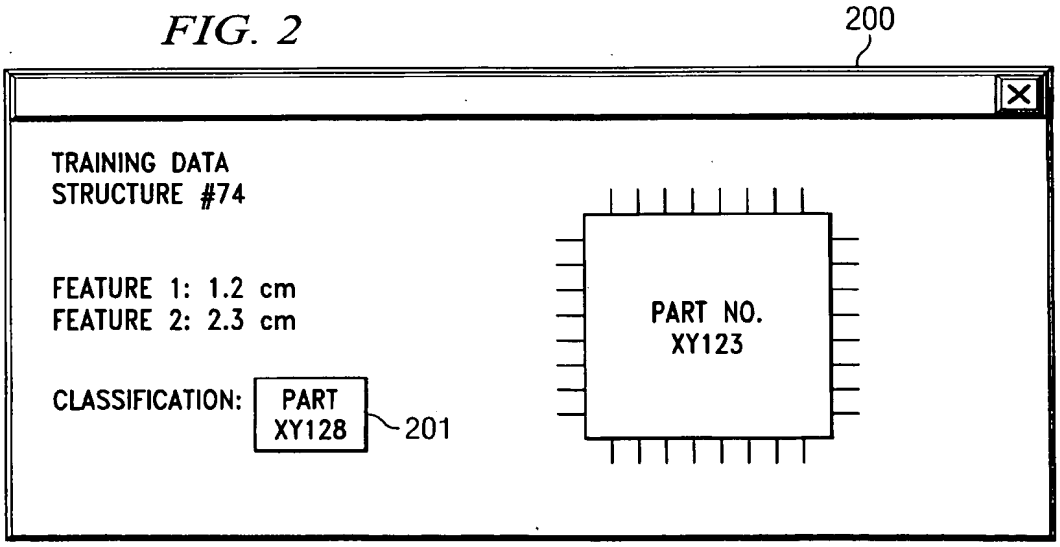


FIG. 3

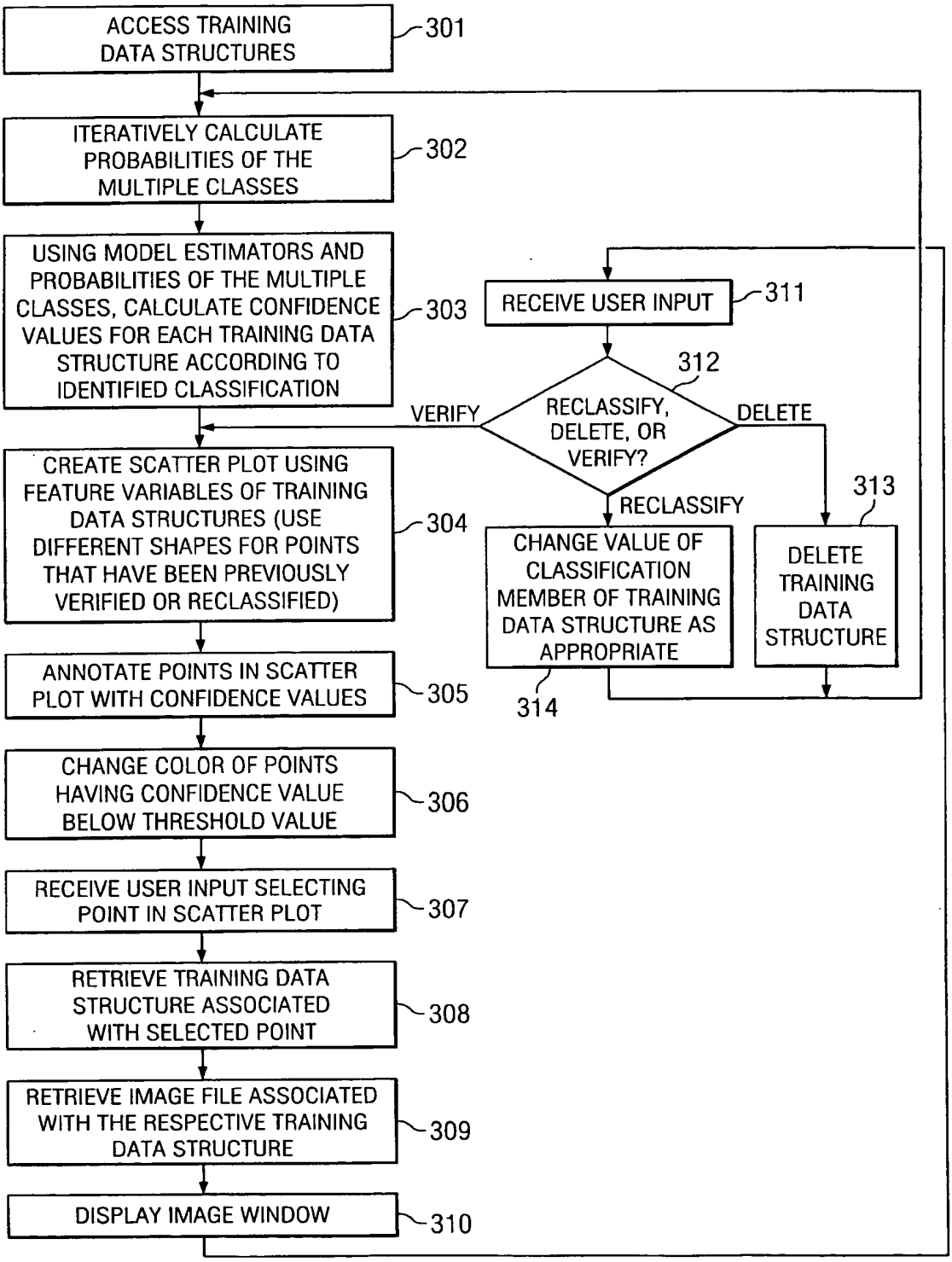
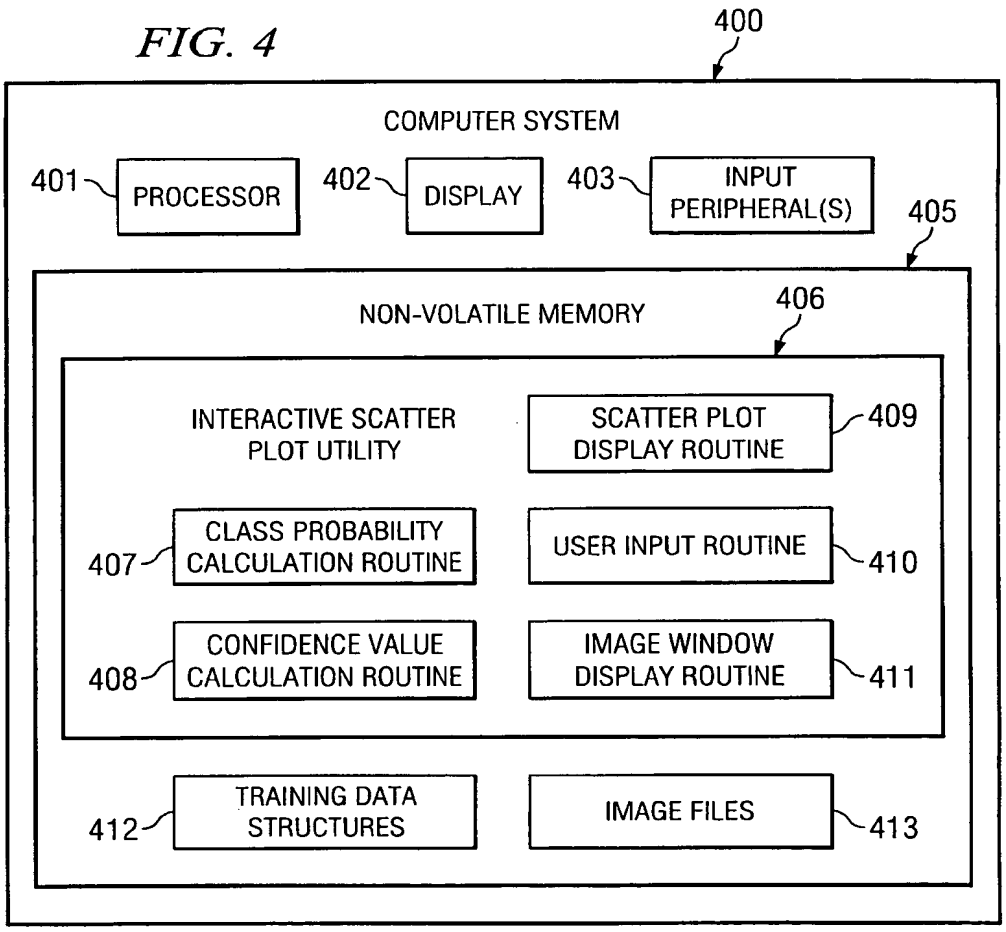

ACCESS TRAINING DATA STRUCTURES
301
ITERATIVELY CALCULATE PROBABILITIES OF THE MULTIPLE CLASSES
302
USING MODEL ESTIMATORS AND PROBABILITIES OF THE MULTIPLE CLASSES, CALCULATE CONFIDENCE VALUES FOR EACH TRAINING DATA STRUCTURE ACCORDING TO IDENTIFIED CLASSIFICATION
303
CREATE SCATTER PLOT USING FEATURE VARIABLES OF TRAINING DATA STRUCTURES (USE DIFFERENT SHAPES FOR POINTS THAT HAVE BEEN PREVIOUSLY VERIFIED OR RECLASSIFIED)
304
ANNOTATE POINTS IN SCATTER PLOT WITH CONFIDENCE VALUES
305
CHANGE COLOR OF POINTS HAVING CONFIDENCE VALUE BELOW THRESHOLD VALUE
306
RECEIVE USER INPUT SELECTING POINT IN SCATTER PLOT
307
RETRIEVE TRAINING DATA STRUCTURE ASSOCIATED WITH SELECTED POINT
308
RETRIEVE IMAGE FILE ASSOCIATED WITH THE RESPECTIVE TRAINING DATA STRUCTURE
309
DISPLAY IMAGE WINDOW
310
RECEIVE USER INPUT
311
RECLASSIFY, DELETE, OR VERIFY?
312
VERIFY
DELETE
RECLASSIFY
CHANGE VALUE OF CLASSIFICATION MEMBER OF TRAINING DATA STRUCTURE AS APPROPRIATE
314
DELETE TRAINING DATA STRUCTURE
313

FIG. 4


400
COMPUTER SYSTEM
401
PROCESSOR
402
DISPLAY
403
INPUT PERIPHERAL(S)
405
NON-VOLATILE MEMORY
406
INTERACTIVE SCATTER PLOT UTILITY
SCATTER PLOT DISPLAY ROUTINE
409
407
CLASS PROBABILITY CALCULATION ROUTINE
USER INPUT ROUTINE
410
408
CONFIDENCE VALUE CALCULATION ROUTINE
IMAGE WINDOW DISPLAY ROUTINE
411
412
TRAINING DATA STRUCTURES
IMAGE FILES
413